

Electronics and Nanoelectronics

Petrozavodsk State University

Degree or qualification is awarded: **Master**

Language of study: **Russian**

Mode of study: **full-time**

Duration: **2 years**

Availability of free education: **no**

Price: **210 000 RUB per year**

Programme webpage at the university website: <https://petsu.ru/specialization/146>

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The Master Degree Program helps the students to develop cultural and professional competences aimed at learning the means and methods of theoretical and experimental research, mathematical and computer modeling, design, engineering and production technology, usage of materials, components, electronic devices, facilities of equipment, vacuum, plasma, solid-state, microwave, optic, micro- and nanoelectronics of various functional use.

The theoretical courses include studying such disciplines as current issues of electronics and nanoelectronics, design and technology of electronic component base, physics and circuit engineering of integrated circuits, VLSI technology, computer technologies in research, science and education, special subjects of micro- and nanotechnologies, laser, electric pulse and plasma chemical technologies, theoretical and applied material engineering, physical basis of superconductivity, physical method of studying solid bodies, electronic processes in solid bodies and others.

Occupational field of the graduates includes working with materials, components, electronic devices, facilities, methods of research, diagnostic and technological equipment, mathematical models, solution algorithms for routine problems, modern software and data support of modeling and designing electronics and nanoelectronics products.

Specializations within this programme